

MODIFICATION RECOMMENDED

6813B-06

S E R V I C E N O T E

Supersedes:
NONE

**6813B AC SOURCE/ANALYZER, 0-300 VRMS,1750 VA,
SINGLE-PHASE. GPIB, RS-232.**

Serial Numbers: A LL

The **AC INPUT SAFETY COVER** has a strain relief used to secure the AC line cord that may become loose.

Parts Required:

| P/N | Description | Qty. |
|-----------|-----------------------|------|
| 5040-1676 | AC INPUT SAFETY COVER | 1 |

ADMINISTRATIVE INFORMATION

| | | | |
|---|--|--|---|
| SERVICE NOTE CLASSIFICATION: | | | |
| MODIFICATION RECOMMENDED | | | |
| ACTION CATEGORY: | X ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME | STANDARDS | LABOR: 0.17 Hours (10min) |
| LOCATION CATEGORY: | X CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE X SERVICE CENTER <input type="checkbox"/> CHANNEL PARTNER | SERVICE INVENTORY: X RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT | USED PARTS: X RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT |
| AVAILABILITY: | PRODUCT'S Support Life | NO CHARGE AVAILABLE UNTIL: 1/2012 | |
| AUTHOR: | CP | PRODUCT LINE: SP | |
| ADDITIONAL INFORMATION: ONLY replace the AC Safety Cover P/N 5040-1676 if the label shown in Figure 7 does not appear on the Safety cover or if the Cover is defective due to described failure, the Safety cover should be replaced at NO charge to the customer. | | | |
| Lost or broken AC Safety Cover will not be replaced using warranty. | | | |

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Situation:

When the incorrect nut is used or a locking Nut is put on incorrectly the strain relief will become loose.

Figure 1 is an example of what happens when the strain relief becomes loose, the line cord becomes twisted. When a heavy line cord is used the strain relief becomes loose very easily, and the line cord cable can rotate freely.

Figure 2 shows the inside of the AC Safety Cover housing the incorrect hardware is shown. It will be very difficult to tighten the strain relief. AMC (Asian Manufacturing Center) uses a special tool to tighten the locking nut. When the incorrect nut is used or a locking Nut is put on incorrectly the strain relief will become loose as described above.

Figure 1



Figure 2



Figures 3 & 5 is representative of a not without locking ribs.

Figure 3 Regal Non locking Nut



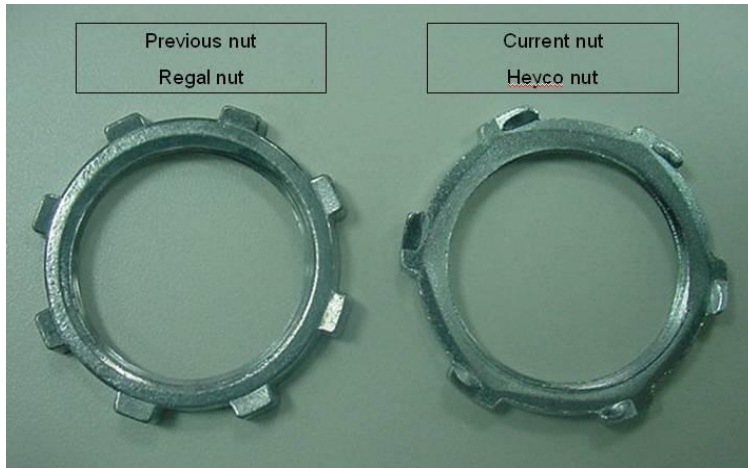
Figure 4 Heyco locking Nut



Figures 4 & 6 is representative of a nut with locking ribs.

Figure 5

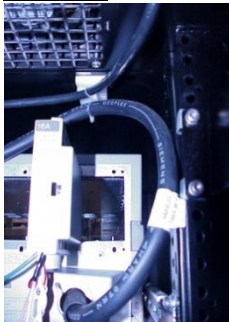
Figure 6

**Solution/Action:**

The entire AC **INPUT SAFETY COVER** P/N 5040-1676 should be replaced.

RECOMMENDED WORK-AROUND

The line cord should also be securely fastened at a point 6 to 12 inches away from **INPUT SAFETY COVER** as shown in [Figure 7](#). When this type of strain relief is used the electrical code requires the cord/cable being held by the strain relief be secured. Doing this eliminates the cable or cord from being twisted as shown in figure 1.

Figure 7

The individual parts shown in [Figure 8](#) are not available from Agilent parts “SPO” (Support Parts Organization). It is not cost affective to repair the AC **INPUT SAFETY COVER**, a special tool is required to tighten the nut shown in Figure 2.

ONLY replace the AC Safety Cover P/N 5040-1676 if the label shown in Figure 8 does not appear on the Safety cover or if the Cover is defective due to described failure, the Safety cover should be replaced at **NO** charge to the customer.

Lost or broken AC Safety Cover will not be replaced using warranty.

Figure 8



The information below is what is printed on the label shown in **Figure 8**

Required torque for securing AC Input Cover,
5040-1676, to unit is between
10 – 12 in lbs (1.13 – 1.26 N.m).

Required torque for Strain Relief screw is between
tightened using 2inlb torque.

NOTE Other related Service Notes and affected models:

| | | | |
|----------|----------|----------|-----------|
| 6571A-09 | 6671A-11 | 6812B-04 | 66000A-07 |
| 6572A-09 | 6672A-11 | 6813B-06 | |
| 6573A-08 | 6673A-10 | | |
| 6574A-10 | 6674A-12 | | |
| 6575A-10 | 6675A-12 | | |